

## **Product datasheet for RG210491**

### INPP5F (OCRL) (NM\_001587) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** INPP5F (OCRL) (NM\_001587) Human Tagged ORF Clone

Tag: TurboGFP Symbol: INPP5F

Synonyms: Dent-2; DENT2; INPP5F; LOCR; NPHL2; OCRL-1; OCRL1

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

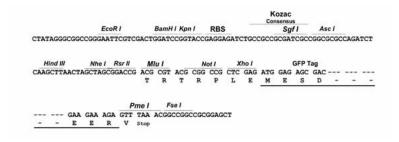
E. coli Selection: Ampicillin (100 ug/mL)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 

Cloning sites used for ORF Shuttling:





**ACCN:** NM\_001587

ORF Size: 2679 bp



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#### INPP5F (OCRL) (NM\_001587) Human Tagged ORF Clone - RG210491

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 001587.3, NP 001578.2</u>

 RefSeq Size:
 5141 bp

 RefSeq ORF:
 2682 bp

 Locus ID:
 4952

 UniProt ID:
 Q01968

Cytogenetics: Xq26.1

**Domains:** RhoGAP, IPPc, Exo\_endo\_phos

**Protein Families:** Druggable Genome

**Protein Pathways:** Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

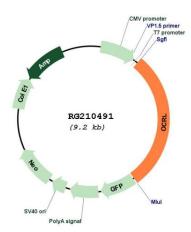
**Gene Summary:** This gene encodes an inositol polyphosphate 5-phosphatase. This protein is involved in

regulating membrane trafficking and is located in numerous subcellular locations including the trans-Golgi network, clathrin-coated vesicles and, endosomes and the plasma membrane. This protein may also play a role in primary cilium formation. Mutations in this gene cause oculocerebrorenal syndrome of Lowe and also Dent disease. Alternate splicing results in

multiple transcript variants. [provided by RefSeq, Jan 2016]



# **Product images:**



Circular map for RG210491